

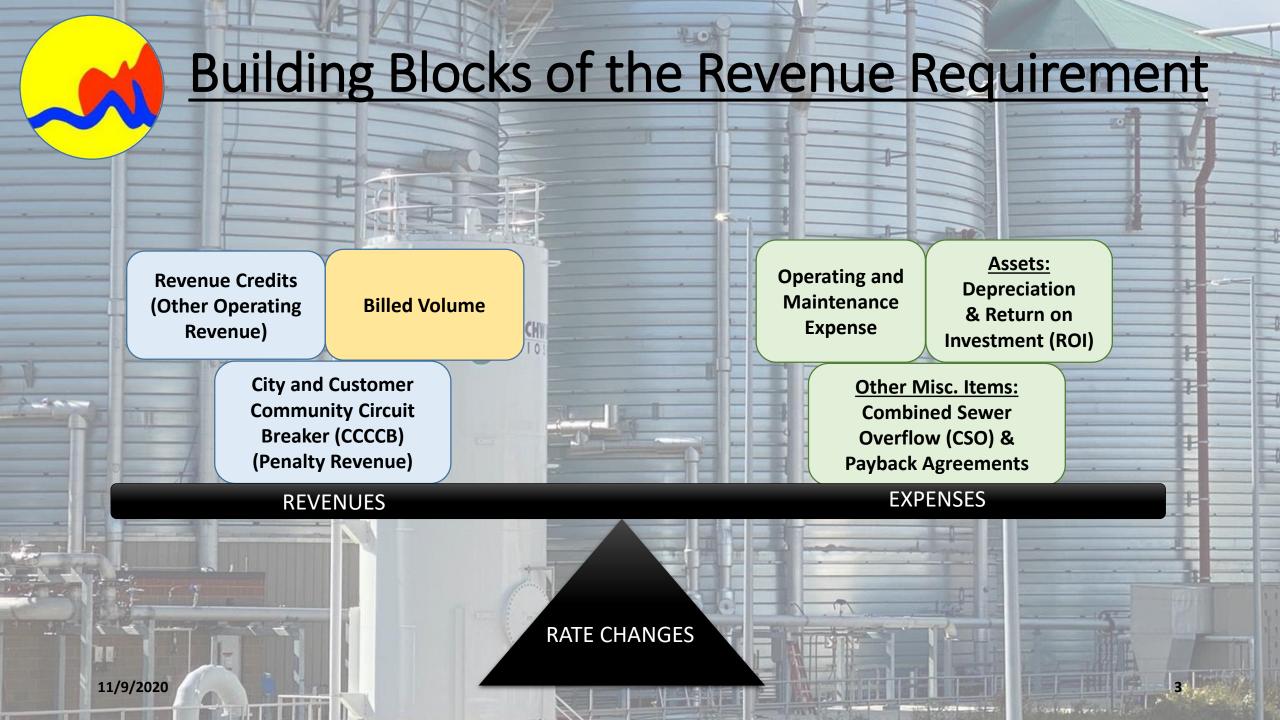


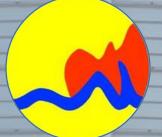
## **Historical Rate Changes**

_	Water Supply System			Sewage Disposal System		
Rate Study Year	Revenue Requirements	% change in RR over prev year	% gross rate incr (decr) **	Revenue Requirements	% change in RR over prev year	% gross rate incr (decr) **
2005	\$ 37,329,089	6.07%	5.94%	\$ 36,283,756	12.64%	12.76%
2006	39,629,260	6.16%	0.63%	38,301,107	5.56%	4.94%
2007	40,270,271	1.62%	4.95%	42,742,825	11.60%	15.73%
2008	42,017,680	4.34%	2.45%	47,092,925	10.18%	14.69%
2009	42,939,752	2.19%	9.89%	51,378,424	9.10%	14.04%
2010	41,200,107	-4.05%	-6.27%	49,673,390	-3.32%	-3.30%
2011	41,802,404	1.46%	5.15%	50,082,541	0.82%	2.89%
2012	39,247,442	-6.11%	-4.41%	48,183,681	-3.79%	-2.46%
2013	38,646,748	-1.53%	-4.30%	48,946,212	1.58%	2.46%
2014	40,055,985	3.65%	2.50%	49,962,043	2.08%	2.81%
2015	40,178,439	0.31%	1.00%	49,868,027	-0.19%	0.30%
2016	41,187,517	2.51%	3.63%	50,400,344	1.07%	0.36%
2017	42,828,972	3.99%	2.45%	52,319,981	3.81%	3.08%
2018	43,868,464	2.43%	2.71%	54,611,300	4.38%	3.28%
2019	45,752,997	4.30%	2.47%	56,969,417	4.32%	3.49%
2020*	45,501,943	-0.55%	0.62%	61,242,290	7.50%	7.92%
AVG	41,403,567	1.67%	1.84%	49,253,641	4.21%	5.19%

<sup>\*</sup> Revenue Requirements per the 2020 Preliminary Rate Study.

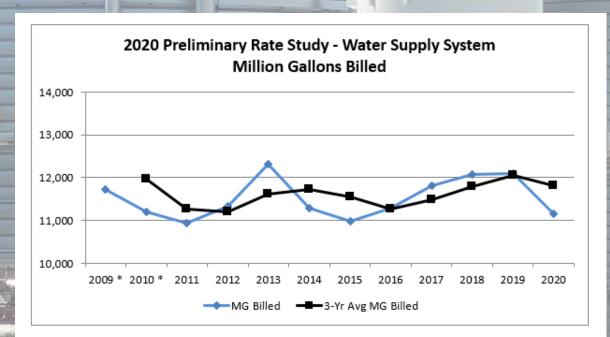
<sup>\*\*</sup> The percentage gross rate increase (decrease) differs from the annual percentage change in Revenue Requirements due to differences in usage volumes/customers/application of Circuit Breaker.





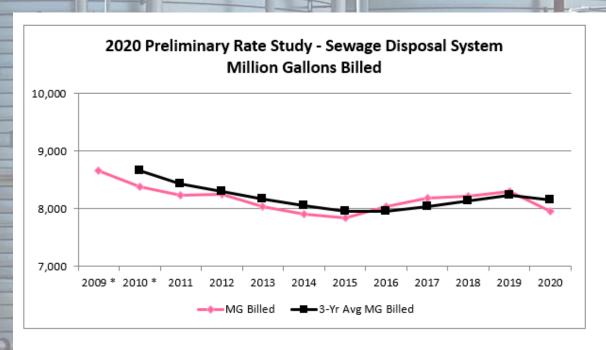
## Billed Volume Average - Revenue Expectation

- 2020 Water volume down (7.89%) over 2019
- 3-Yr Avg Water volume **down** by (2.02%)

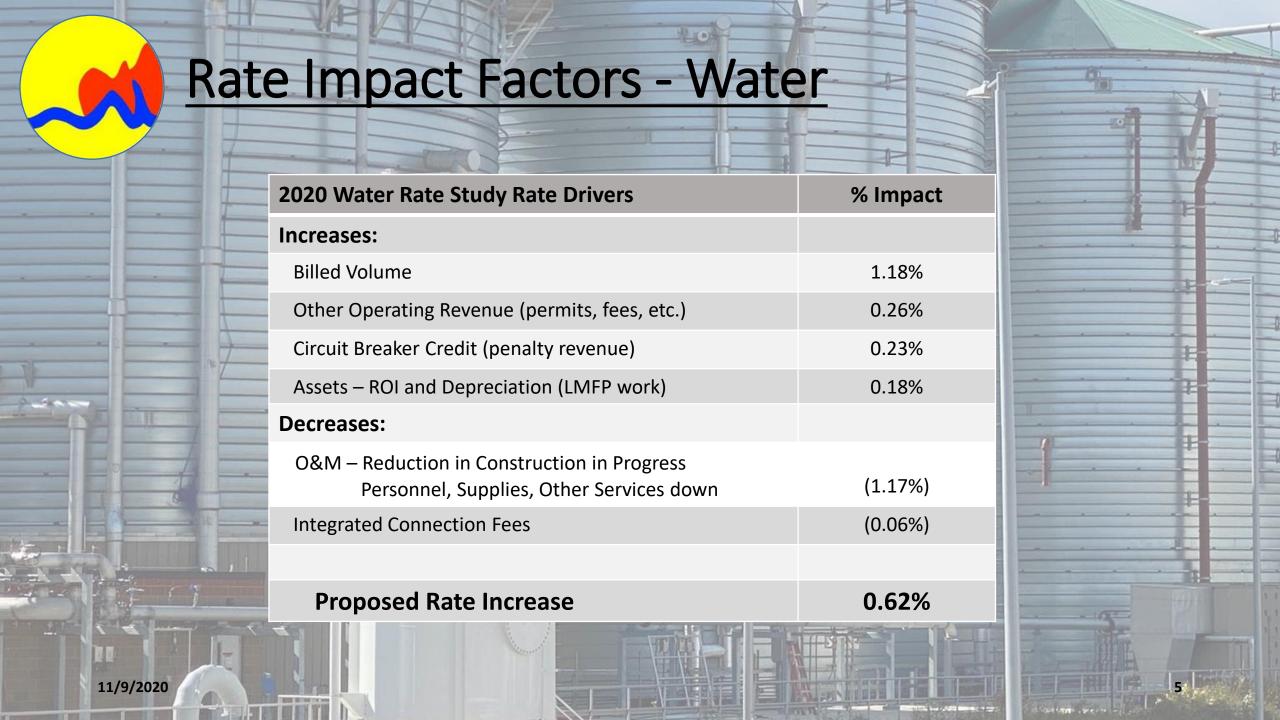


\* Volumes were restated from these Rate Studies to reflect actual billings without adjustment for accrued revenues.

- 2020 Sewer Volume down (4.12%) over 2019
- 3-Yr Avg Sewer Volume **down** (0.84%)



<sup>\*</sup> Volumes were restated from these Rate Studies to reflect actual billings without adjustment for accrued revenues.





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## Rate Impact Factors - Sewer

2020 Sewer Rate Study Rate Drivers	% Impact			
Increases:				
Assets – ROI and Depreciation (\$45M Biodigester Preload, Admin and Lab Renovation)	5.62%			
O&M – Construction in Progress (DTE & Consumers) Ash Lagoon Remediation – EGLE mandate Biodigester Project Related CSX Soil Contamination Study WRRF Plant Work	1.91%			
Billed Volume - 3-Yr Avg Sewer Volume down	0.39%			
CSO Debt Service Requirement (GR Only)	0.38%			
Decreases:				
Other Operating Revenue (permits, fees, etc.)	(0.13%)			
Circuit Breaker Credit (penalty revenue)	(0.13%)			
Connection Fees and Surcharge Revenues	(0.12%)			
Proposed Rate Increase	7.92%			



## Biodigester Project Update

Project Budget	
Biodigester	\$56,806,303
RNG	14,842,449
Phosphorus	6,548,916
Consumers	1,074,840
Engineering	5,266,340
Total	\$84,538,848

\*October 2019 Budget was \$85,327,083, resulting in a (\$788,235) budget reduction as bids finalized

### What has not changed

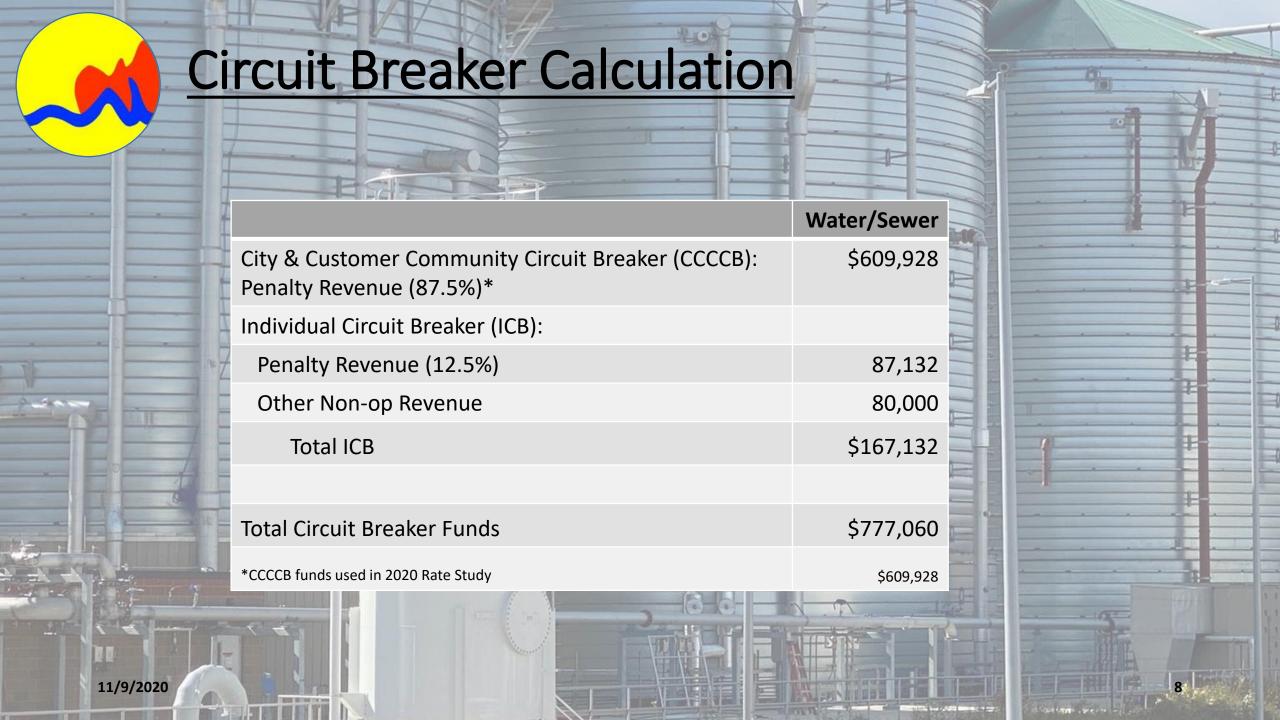
- Renewable energy and sustainability benefits remain strong
- Less costly than alternatives and those alternatives did not produce renewable energy and sustainability benefits

#### October 2020 Updates

- Market conditions
  - RINs market price rebounds to \$1.42 per gallon
  - All bids finalized
  - Timing of project completion and generated revenue delayed due to COVID19. \*Schedule of completion:
    - Tank 2 November 2020
    - Tank 1 January 2021
    - CW Tank (Tank 3) February 2021
    - RNG Fall 2020
    - Phosphorus Recovery Fall 2020

#### Phasing of rates

- RS19 phased in \$30 Million for ~3.49% rate increase with an 8% increase estimated for CY21
- RS20 phases in \$45 Million ~5% rate increase
- Retains debt coverage around 1.40x (maintains bond ratings)
- Rates can be mitigated by proven operation cost control efforts
- Projected rate savings in future years from Biodigestion system revenue





## Prelim 2021 Rate Impact by Community

Retail Communities: charges assessed directly to User based on water consumption (except for Wright Twp – REUs). Readiness to Serve (RTS) based on meter size and Commodity based on volume. City of GR maintains assets and bills users directly.

Wholesale Communities: charges assessed directly to Wholesale Community based on water consumption measured through a master meter at the point of service in the customer community. Readiness to Serve (RTS) based on non-integrated system requirements and Commodity based on volume. Customer community maintains assets and bills users directly.

			WATER (1)		SEWER (1)	
		A	MOUNT	PERCENT	AMOUNT	PERCENT
	GRAND RAPIDS	\$	(12,430)	-0.05%	\$ 2,607,909	6.75%
COMMUNITIES	WALKER		42,708	1.21%	436,778	8.91%
	KENTWOOD		54,306	1.21%	515,546	11.62%
OMM	CASCADE TWP		(167,913)	-4.51%	284,906	10.99%
	GRAND RAPIDS TWP		29,795	1.20%	216,496	8.14%
RETAIL	TALLMADGE TWP		(25,517)	-11.25%	(17,120)	-3.66%
L	- WRIGHT TWP		N/A	N/A	26,685	9.09%
WHOLESALE COMMUNITIES	- EAST GRAND RAPIDS		30,955	3.81%	215,954	21.76%
	ADA TWP		115,036	9.13%	129,273	9.42%
	OTTAWA COUNTY		213,412	10.78%	NA	NA
	GAINES TWP		N/A	N/A	37,343	16.70%
	CALEDONIA TWP		N/A	N/A	41,281	27.03%
	SYSTEM	\$	280,352	0.62%	\$ 4,495,051	7.92%

(1) Change in revenue requirements based on revenues currently generated from rates, customer base and volumes reported in the preliminary rate study (Includes consideration for relief from CCCCB).

#### DISCLOSE RELIEF PROVIDED BY CITY & CUSTOMER COMMUNITY CIRCUIT BREAKER (CCCCB)

	WATE	ER	SEWE	SEWER	
	AMOUNT	PERCENT	AMOUNT	PERCENT	
SYSTEM REVENUE REQUIREMENT	\$ 45,501,943	0.62%	\$ 61,242,290	7.92%	
ADD: CCCCB RELIEF	260,317	0.58%	349,611	0.62%	
SYSTEM CHANGE- WITHOUT RELIEF	\$ 45,762,260	1.20%	\$ 61,591,901	8.54%	

# Prelim 2021 Quarterly Bill by Community APPROXIMATE QUARTERLY BILL 2020 2021 DOLLARS PERCENT

	APPROXIMATE QUARTERLY BILL		CHANGE	
	2020	2021	DOLLARS	PERCENT
GRAND RAPIDS				
WATER	\$ 87.24	\$ 86.89	\$ (0.35)	-0.40%
SEWER	122.20	128.90	6.70	5.48%
	\$ 209.44	\$ 215.79	\$ 6.35	3.03%
BASE RATIO	1.00	1.00		
WALKER				
WATER	\$ 86.68	\$ 87.35	\$ 0.67	0.77%
SEWER	138.99	150.81	11.82	8.50%
	\$ 225.67	\$ 238.16	\$ 12.49	5.53%
RATIO TO GR	1.08	1.10		
KENTWOOD				
WATER	\$ 89.18	\$ 89.64	\$ 0.46	0.52%
SEWER	76.44	84.20	7.76	10.15%
	\$ 165.62	\$ 173.84	\$ 8.22	4.96%
RATIO TO GR	0.79	0.81		
CASCADE TWP				
WATER	\$ 133.11	\$ 126.59	\$ (6.52)	-4.90%
SEWER	153.88	169.76	15.88	10.32%
	\$ 286.99	\$ 296.35	\$ 9.36	3.26%
RATIO TO GR	1.37	1.37		
GRAND RAPIDS TWP				
WATER	\$ 103.04	\$ 103.98	\$ 0.94	0.91%
SEWER	134.53	144.99	10.46	7.78%
-	\$ 237.57	\$ 248.97	\$ 11.40	4.80%
RATIO TO GR	1.13	1.15		
TALLMADGE TWP				
WATER	\$ 90.98	\$ 76.86	\$ (14.12)	-15.52%
SEWER	256.82	247.35	(9.47)	-3.69%
	\$ 347.80	\$ 324.21	\$ (23.59)	-6.78%
RATIO TO GR	1.66	1.50		
* THE COMPARISONS ABOVE ARE BASED ON SYSTEM AVERAGE DOMESTIC CUSTOMER				

<sup>\*</sup> THE COMPARISONS ABOVE ARE BASED ON SYSTEM AVERAGE DOMESTIC CUSTOMER

QUARTERLY CONSUMPTION OF: WATER-SEWER.

11/9/2020

26.00 UNITS OR 19.00 UNITS OR 19,448 GALLONS 14,212 GALLONS

SEWER -NO. OF MONTHS:

3

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## Rate Study Schedule

- November 6<sup>th</sup>: Prelim Rate Study available & 30-day review and comment period open for partner communities
- November 10<sup>th</sup>: Rate Study Presentation to City of Grand Rapids Commission & Initiation of 20 day Public Comment Period
- November 19<sup>th</sup>: Rate Study Presentation to Utility Advisory Board
- Late November/Early December: Meetings with Partner Communities
- December 15<sup>th</sup>: Approval of the 2021 Water and Sanitary Sewer System
   Rates by resolution by the City of Grand Rapids Commission

Rate studies available online at:

https://www.grandrapidsmi.gov/Government/Departments/Water-System/Water-and-Sewer-Rate-Studies

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